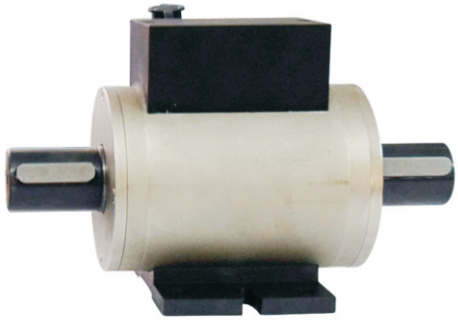
SUCH

Dynamic Rotating Torque Sensor User Manual

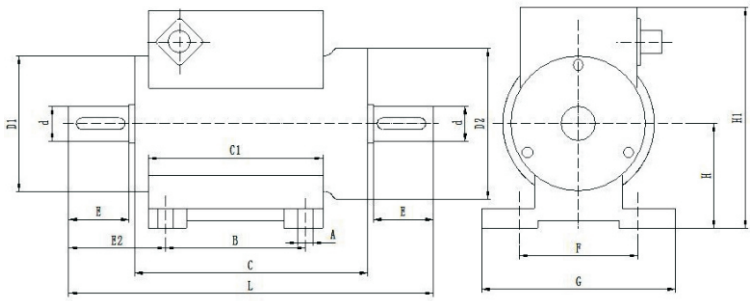


GTS200

FEATURES

- Non-contact dynamic torque, no wear；
- Can measure torque value and rotational speed in both forward and reverse directions, Max speed 8000RPM；
- Keyed connection at both ends, the shaft material is 17-4PH stainless steel, and the shell material is aluminum alloy；
- Suitable for testing the output torque and power of rotating power equipment such as motors, engines, and internal combustion engines.

SIZE(mm)



Range(Nm)	Φd	ΦD2	A	B	C	E	F	G	H	H1	C1	E2	L	Keyb*h*l*n
5~100	18	78	8	72	122	31	61	100	54	116	90	50	188	6x6x25x1
200	28	92	8	72	123	41	61	100	60	125	90	59	209	8x7x35x1
300~500	38	96	8	72	124	55	61	100	65	135	90	74	238	10x8x50x2
1k~2k	48	106	12	69	126	70	78	120	68	144	90	90	270	14x9x65x2
3K	55	118	12	65	127	88	115	155	77	170	90	123	311	16x10x80x2
5K	75	144	12	69	131	105	156	180	90	185	100	139	347	20x14x95x2
10K	98	158	14	80	143	118	170	200	110	214	110	155	389	28x16x115x2
20k-30k	105	170	14	87	160	125	180	204	115	236	123	165	420	28x16x119x2
50k-60k	150	240	14	89	163	123	184	230	153	309	123	165	419	40x22x115x2
100k	170	270	16	95	188	200	194	240	169	340	140	252	598	45x25x195x2

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SPECIFICATION

Torque range	5,10,20,30,50,100,200,300,500,1K,2K,3K,5K,10K,20K,30K,50K,60K,100K(Nm)		
Torque accuracy	±0.5%F.S(Standard),±0.2%F.S, ±0.1%F.S(Optional)	Temp.Effect on Zero	±0.2%F.S/10℃
Power supply voltage	±15VDC,Frequency signal output(Standard)	Temp.Effect on Full scale	±0.2%F.S/10℃
	24VDC，Voltage or current signal output(Optional)	Compensated Temp.Range	-10～+60℃
Frequency signal output	10±5KHZ(Standard)	Using temperature	-20～+75℃
	4～20mA、0～10V、±5V，±10V(Optional)	Connection way	5/8pin aviation plug
Speed signal output	60 pulse(Standard)	Ultimate overload	200%
	4～20mA、0～5V、0～10V(Optional)	Cable	5m

ELECTRICAL WIRING DEFINITION

The torque sensor uses an aerospace connector (with shielded cable). The shielded cable outlet line defines:

Power supply：±15V	**Torque output：5~15KHz**	**Torque output:5~15KHz,Built-in speed sensor output:60 pulse/RPM**
Red	V+(+15V)	V+(+15V)
Blue	V-(-15V)	V-(-15V)
Yellow	Torque Output +	Torque Output +
Black	Torque Output -	Torque Output -/Speed output-
White		Speed output+

Power supply：±15V	**Torque output：4~20mA(Analog signal)**	**Torque output：4~20mA(Analog signal)，Built-in speed sensor output：60pulse/RPM**
Red	V+(+15V)	V+(+15V)
Blue	V-(-15V)	V-(-15V)
Yellow	Torque Output +	Torque Output+
Black	GND	GND
White	Torque Output-	Speed output+
Green		Torque Output-
Gray		Speed output-

Power supply:24V	**Torque Output:5~15KHz**	**Torque Output:5~15KHz,Built-in speed sensor output:60pulse/RPM**
Red	V+(24V)	V+(24V)
Blue	Torque Output-	Torque Output-/Speed output-
Yellow	Torque Output+	Torque Output+
Black	GND	GND
White	/	Speed output+

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Power supply: 24V	**Torque Output: 4~20mA(Analog signal)**	**Torque Output:4~20mA(Analog signal), Built-in speed sensor output:60pulse/RPM**
Red	V+(24V)	V+(24V)
Blue	Torque Output-	
Yellow	Torque Output+	Torque Output+
Black	GND	GND
White	/	Speed output+
Green	/	Torque Output-
gray	/	Speed output-

Power supply: 24V	**Torque Output:0~±10V(Analog signal), Speed sensor output:0~10V(Analog signal)**	Note
Red	V+(24V)	Torque and speed are both analog outputs, external transmitter, Dual-channel
Yellow	Torque Output+	
Black	GND	
White	Speed output+	
Green	Torque Output-/Speed output-	